

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 2

IN THE CLAIMS:

Please cancel claim 5 without prejudice or disclaimer; amend claims 1, 2, 4, 6-9, 11, 12, 14-17, and 22-30 as indicated below, and add claims 31 and 32 as follows:

1. (Currently amended) An underfloor cable junction unit for installation ~~[[in]]~~ beneath a raised floor system used raised floor, the space beneath the raised floor being arranged as a cooling air supply duct for devices adapted to be arranged on the raised floor, ~~[[and]]~~ the raised floor having floor panels with cooling air outlets, the junction unit having (a) a top side, wherein the top side or at least a major part of it is open to enable ~~[[the]]~~ passage of cooling air through the top side toward a floor panel ~~with~~ of the raised floor, the panel including cooling air outlets, (b) connectors for connecting data cables for the devices to each other, (c) a structure for mounting the junction unit in the supply duct, and (d) lateral sides, the lateral sides or at least a major part of them being open for enabling cooling air to flow through the lateral sides and thereby form part of the cooling air supply duct while the cable junction unit is installed in the duct.

2. (Currently amended) The underfloor cable junction unit of claim 1, ~~which is designed~~ wherein the mounting structure is arranged to be mounted on a base floor on which the raised floor is posted.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 3

3. (Original) The underfloor cable junction unit of claim 1, which is dimensioned such that it can be lowered through a module opening which is present when a module panel of a discrete modular raised-floor system is removed.

4. (Currently amended) The underfloor cable junction unit of claim 1, having opposite faces and comprising rows of connectors for data cables, the rows being arranged on at least two levels, one above the other, at at least one of the faces, ~~wherein open slits are provided in~~ at least one of the faces of the junction unit having open slits between the rows of connectors to facilitate the passage of cooling air through the junction unit from face to face.

5. (Cancelled)

6. (Currently amended) An underfloor cable junction unit for installation in a raised-floor system used as cooling air supply duct, the junction unit having opposite faces and comprising rows of connectors arranged on at least two levels, one above the other, at at least one of the faces, ~~wherein open slits are provided in~~ at least one of the faces including open slits between the rows of connectors to facilitate ~~[[the]]~~ passage of cooling air through the junction unit from face to face, the open slits thereby forming part of the cooling air supply duct while the cable junction unit is installed in the duct.

Serial No. 10/629,703

HP 200206985-3 US

LHB 1509-429

Page 4

7. (Currently amended) The underfloor cable junction unit of claim 6, the junction unit having a top side, wherein the top side or at least a major part of it is open to enable the passage of cooling air through the top side and thereby form part of the cooling air supply duct while the cable junction unit is installed in the duct.

8. (Currently amended) The underfloor cable junction unit of claim 6, the junction unit having lateral sides, wherein the lateral sides or at least a major part of them are open and thereby form part of the cooling air supply duct while the cable junction unit is installed in the duct.

9. (Currently amended) An underfloor cable junction unit for installation in a raised-floor system, the junction unit having opposite faces and comprising slide-in data connector units able to be slid from outside into the junction unit at at least one of its faces ~~from outside~~, the slide-in connector units being arranged on at least two levels in the junction unit, one above the other.

10. (Original) The underfloor cable junction unit of claim 9, wherein the slide-in connector units are fixed to the junction unit in a dismountable manner to enable them to be removed, replaced or changed in their position or enable further slide-in units to be mounted, without dismounting the junction unit.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 5

11. (Currently amended) The underfloor cable junction unit of claim 9, wherein the slide-in connector units have data connector rows, at least some of the connector rows being at least one of copper data cable connector rows or optical fiber connector rows.

12. (Currently amended) The underfloor cable junction unit of claim 11, having optical fiber connector rows with a connector type which enables pre-fabricated optical break-out cables with pre-installed cable connectors to be plugged-in at the permanent-cable connection side of the junction unit connectors, without using a splice box.

13. (Original) The underfloor cable junction unit of claim 9, arranged to accommodate slide-in connector units at two opposing faces of the junction unit.

14. (Currently amended) The underfloor cable junction unit of claim 9, wherein the junction unit has an inside, and wherein connectors of the slide-in connector units are arranged such that permanent cable connections are ~~provided~~ at an inner side of the connectors facing the inside of the junction unit and plug-in patch cable connections are ~~provided~~ at an outward-facing side of the connectors.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 6

15. (Currently amended) The underfloor cable junction unit of claim 9, wherein the slide-in connector units have rows of connectors, the connectors ~~being provided with~~ including enclosures.

16. (Currently amended) An underfloor cable junction unit with rows of data connectors for installation in a raised-floor system, the junction unit having a frame structure with a frame, the frame comprising ~~portal-like~~ portal front parts and sidebars connecting the front parts, such that the portal ~~like~~ front parts are ~~arranged~~ opposite each other.

17. (Currently amended) The underfloor cable junction unit of claim 16, wherein both front parts are open at least at their lower parts to enable bunches of permanent data cables to pass through the junction unit, whereby the permanent cable bunches are encompassed and thereby guided.

18. (Original) The underfloor cable junction unit of claim 16, wherein several mounting positions are provided for the sidebars to enable them to be mounted at different heights.

19. (Original) The underfloor cable junction unit of claim 16, wherein the sidebars are mounted to the front parts in a dismountable manner to enable them to be replaced or their mounting height to be changed.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 7

20. (Original) The underfloor cable junction unit of claim 16, which is arranged to be height adjustable.

21. (Original) The underfloor cable junction unit of claim 16, which is arranged to be width adjustable.

22. (Currently amended) An underfloor cable junction unit for installation in a raised-floor system, the junction unit having faces and lateral sides, wherein at least one of the faces is equipped with rows of data connectors~~[[;]]~~, and at least one horizontal sidebar is arranged at each of the lateral sides, ~~wherein~~ the at least one horizontal sidebar ~~[[is]]~~ being arranged to enable permanent cables coming from the inner side of said connector rows to pass above and outwardly of the sidebar downwardly to a base floor and to be fixed to the sidebar.

23. (Currently amended) The underfloor cable junction unit of claim 22, further comprising patch cable guiding elements arranged laterally ~~[[on]]~~ at at least one of the faces of the junction unit, said guiding elements enabling patch data cables plugged into data connectors of the connector rows to be guided laterally on the face of the junction unit downwardly to a base floor.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 8

24. (Currently amended) The underfloor cable junction unit of claim 22, wherein both faces are open at least at their lower parts to enable bunches of permanent data cables to pass through the junction unit, whereby the permanent cable bunches are encompassed and thereby guided.

25. (Currently amended) A computer center having a raised floor on which computers are arranged, said raised floor [[is]] being arranged as cooling air supply duct for the computers and [[has]] having floor panels with cooling air outlets, said raised floor [[is]] being equipped with underfloor data cable junction units by which the computers are connected to permanent data cables running under the raised floor, ~~said~~ each junction unit having a top side, wherein the top side or at least a major part of it is open to enable [[the]] passage of cooling air through the top side toward a floor panel with cooling air outlets.

26. (Currently amended) A computer center having a raised floor on which computers are arranged, said raised floor [[is]] including air outlets for supplying cooling air to the computers, space beneath the raised floor being arranged as cooling air supply duct for the computers, said raised floor [[is]] being equipped with underfloor cable junction units by which the computers are connected to permanent data cables running under the raised floor, ~~said~~ each

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 9

junction unit having opposite faces and comprising rows of connectors arranged on at least two levels, one above the other, at at least one of the faces, wherein open slits are provided in at least one of the faces between the rows of connectors to facilitate ~~the~~ passage of cooling air through the junction unit from face to face.

27. (Currently amended) A computer center having a raised floor on which computers are arranged, said raised floor ~~is~~ being equipped with underfloor cable junction units by which the computers are connected to permanent data cables running under the raised floor, ~~said each~~ junction unit having opposite faces and comprising slide-in connector units able to be slid from outside into the junction unit at at least one of its faces ~~from outside~~, the slide-in connector units being arranged on at least two levels in the junction unit, one above the other.

28. (Currently amended) A computer center having a raised floor on which computers are arranged, said raised floor ~~is~~ being equipped with underfloor cable junction units by which the computers are connected to permanent data cables running under the raised floor, ~~said each~~ junction unit having a frame structure with a frame, the frame comprising ~~portal-like~~ portal front parts and sidebars connecting the front parts, such that the portal ~~like~~ front parts are arranged opposite each other.

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 10

29. (Currently amended) A computer center having a raised floor on which computers are arranged, said raised floor ~~[[is]]~~ being equipped with underfloor cable junction units by which the computers are connected to permanent data cables running under the raised floor, ~~said~~ each junction unit having faces and lateral sides, wherein at least one of the faces is equipped with rows of connectors~~[[;]]~~, and at least one horizontal sidebar is arranged at each of the lateral sides, ~~wherein~~ the at least one horizontal sidebar ~~[[is]]~~ being arranged to enable permanent cables coming from the inner side of connector rows to pass above and outwardly of the sidebar downwardly to a base floor and to be fixed to the sidebar.

30. (Currently amended) The computer center of claim 29, further comprising:

active network elements and network element junction units, wherein the permanent data cables permanently connect the underfloor cable junction units and the network element junction units, ~~wherein~~

first patch cables for the connection of the computers with the underfloor cable junction units, and

second patch cables for the connection of the active network elements with the network element junction units ~~are provided~~.

Serial No. 10/629,703

HP 200206985-3 US

LHB 1509-429

Page 11

31. (New) A computer center having a raised floor on which computers are arranged, said raised floor including air outlets for supplying cooling air to the computers, space beneath the raised floor being arranged as cooling air supply duct for the computers, said raised floor being equipped with underfloor cable junction units by which the computers are connected to permanent data cables running under the raised floor, each junction unit having first, second, third, and fourth legs on a subfloor beneath the raised floor, the first and second legs being in a first plane, the third and fourth legs being in a second plane parallel to the first plane, the first and third legs being in a third plane at right angles to the first and second planes, and the second and fourth legs being in a fourth plane parallel to the third plane; a first sidebar connected between the first and second legs; a second sidebar connected between the third and fourth legs; the permanent data cables extending longitudinally in the direction of the first and second sidebars and between the legs; a first face part extending between the first and third legs; a second face part extending between the second and fourth legs; slide-in units on one of the face parts, the slide-in units including first data connectors having longitudinal axes extending parallel to the sidebars for connection to data cables having ends positioned at opposite sides of the first data connectors along the longitudinal axes, the junction unit being arranged so cooling air in the supply duct can flow under and over each of the sidebars and face parts, and an opening for flow

Serial No. 10/629,703
HP 200206985-3 US
LHB 1509-429
Page 12

of cooling air extending from just above the subfloor to an air outlet between the sidebars and face parts.

32. (New) The computer center of claim 31, wherein each of the face parts includes a row of second data connectors, the second data connectors having longitudinal axes extending parallel to the sidebars for connection to data cables having ends positioned at opposite sides of the second data connectors along the longitudinal axes.